EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("3332981").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:41
L2	1	("5665675").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:46
L3	1	("5710094").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:48
L4	1	("5811369").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:50
L5	1	("5811368").PN.	USPAT; USOCR	OR	OFF	2008/01/22 09:12
L6	14893	ureido	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L7	9	ureido and 564/32.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L8	1	ureido and 564/32.ccls. and 564/47.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L9	0	ureido and 514/646.ccls. and 564/47.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L10	9	ureido and 514/646.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12

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NEWS 19 NOV 30 ICSD reloaded with enhancements
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NEWS 22 DEC 17 USPATOLD added to additional database clusters
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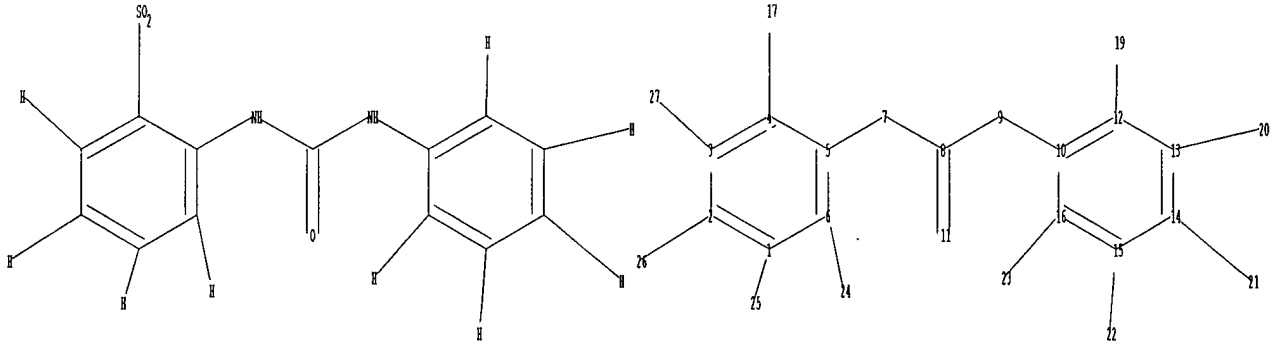

chain nodes :
7 8 9 11 17 19 20 21 22 23 24 25 26 27
ring nodes :
1 2 3 4 5 6 10 12 13 14 15 16

chain bonds :
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16-23
ring bonds :
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exact/norm bonds :
5-7 7-8 8-9 8-11 9-10
exact bonds :
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normalized bonds :
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G1:OH,NH2

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

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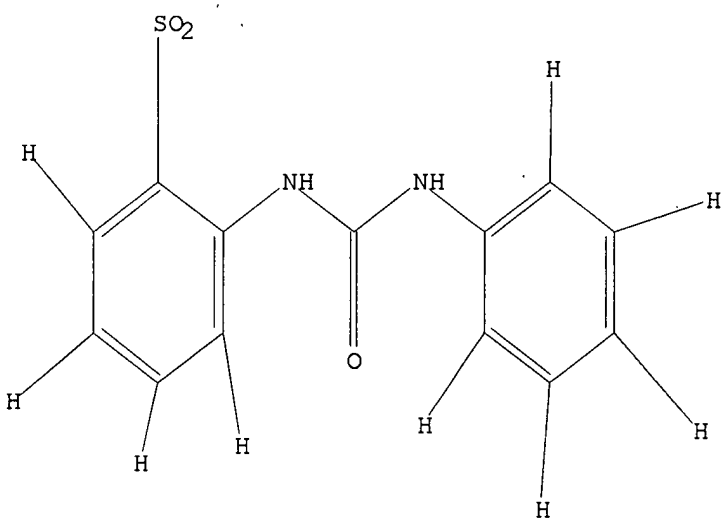
L1 HAS NO ANSWERS
L1 STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 76 TO ITERATE

100.0% PROCESSED 76 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 997 TO 2043
PROJECTED ANSWERS: 0 TO 0

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L2             0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 08:08:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      1403 TO ITERATE

100.0% PROCESSED     1403 ITERATIONS                                 14 ANSWERS
SEARCH TIME: 00.00.01

L3            14 SEA SSS FUL L1

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                                                       ENTRY    SESSION
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L4             22 L3

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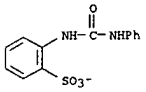
L4 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:979991 CAPLUS
DOCUMENT NUMBER: 145:366486
TITLE: Positive photosensitive composition and image recording material using the same
INVENTOR(S): Watanabe, Kotaro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 40pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006210921	A1	20060921	US 2006-375254	20060315
JP 2006258980	A	20060928	JP 2005-73819	20050315
PRIORITY APPLN. INFO.:			JP 2005-73819 A	20050315

OTHER SOURCE(S): MARPAT 145:366486
AB The invention discloses a pos. photosensitive composition comprising (A) a photo acid generator having bivalent functional group selected from NHC(O), NHS(O)2, NHC(S), and NHC:N(Me), (B) a polymer having a phenolic hydroxyl group, and (C) an IR-light absorber. The invention also provides a pos. planog. printing plate precursor using this photosensitive composition for the recording layer.
IT 910312-72-0
RL: MOA (Modifier or additive use); USES (Uses)
(pos. photosensitive composition for planog. printing plate precursor)
RN 910312-72-0 CAPLUS
CN Sulfonium, tris(4-chlorophenyl)-, salt with 2-[[(phenylamino)carbonyl]amino]benzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

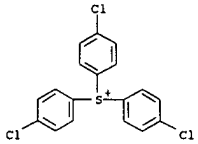
CRN 910312-71-9
CMF C13 H11 N2 O4 S



CM 2

CRN 125853-07-8
CMF C18 H12 Cl3 S

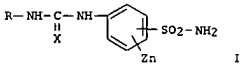
L4 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



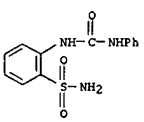
L4 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:866394 CAPLUS
DOCUMENT NUMBER: 134:35079
TITLE: Thermal printing material using support containing used paper pulps
INVENTOR(S): Midorikawa, Yoshiharu; Tsuguzuki, Yuji; Hamada, Kaoru; Kimura, Yoshihide
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000343833	A	20001212	JP 1999-156406	19990603
PRIORITY APPLN. INFO.:			JP 1999-156406	19990603

OTHER SOURCE(S): MARPAT 134:35079
GI



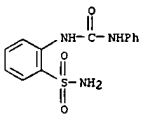
AB The material possesses a heat-sensitive layer based on a colorless or pale colored basic dye precursor and I [X = O or S; R = Ph, naphthyl, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl (these groups may be substituted); Z = C1-6 alkyl or electron-attracting group; n = 0-4] as an organic color developer on a used paper pulp-containing support. The material shows good coloring properties and improved thermal resistance enough to be thermally laminated.
IT 175014-56-9
RL: DEV (Device component use); USES (Uses)
(thermal printing material using support containing used paper pulp and urea derivative color developer)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:830070 CAPLUS
DOCUMENT NUMBER: 134:23529
TITLE: Thermal recording sheet having compound containing diphenyl sulfonic repeating unit
INVENTOR(S): Fukuji, Tadakazu; Ogawa, Hidenori; Sumikawa, Naomi; Imai, Daisuke; Hamada, Kaoru; Kimura, Yoshihide
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000326638	A	20001128	JP 2000-5019	20000104
PRIORITY APPLN. INFO.:			JP 1999-71216 A	19990317

OTHER SOURCE(S): MARPAT 134:23529
AB The title recording sheet has a heat-sensitive layer containing a compound containing di-Ph sulfonic repeating unit and 0.01-0.9 part aminobenzene sufonamide compound based on one part of a color developer. The recording sheet shows the improved stability towards a plasticizer and the improved sensitivity.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(supplemental agent for color developer in thermal recording sheet)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:679947 CAPLUS
DOCUMENT NUMBER: 131:315857
TITLE: Thermal printing material with excellent heat-resistance and plasticizer-resistance
INVENTOR(S): Wakita, Yutaka; Nagai, Tomoaki; Hamada, Kaoru; Sumikawa, Naomi
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11291636	A	19991026	JP 1998-102746	19980414
PRIORITY APPLN. INFO.:			JP 1998-102746	19980414

OTHER SOURCE(S): MARPAT 131:315857
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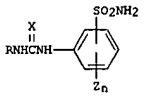
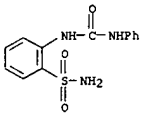


I

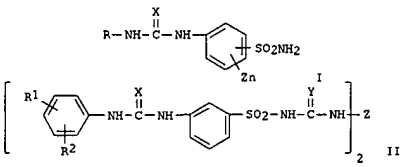
AB The thermal printing material contains a leuco dye, a developer represented by a general formula I (X = O, S; R = Ph, naphthyl, aralkyl, C1-6-lower alkyl, C3-6-cycloalkyl, C2-6-lower alkenyl; Z = C1-6-lower alkyl, electron-withdrawing group; n = 0-4; p = 1-5; n + p ≤5), and glyoxal.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(color developer in thermal printing material with excellent heat-resistance and plasticizer-resistance)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:648642 CAPLUS
DOCUMENT NUMBER: 131:264840
TITLE: Thermosensitive recording material
INVENTOR(S): Sumikawa, Naomi; Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11277910	A	19991012	JP 1998-80954	19980327
JP 3336610	B2	20021021		
PRIORITY APPLN. INFO.:			JP 1998-80954	19980327

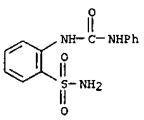
OTHER SOURCE(S): MARPAT 131:264840
GI



II

AB In the title recording material having a heat-sensitive recording layer containing a leuco dye precursor and a developer, the developer containing ≥1 compound I (X = O, S; R = (substituted)phenyl, naphthyl, aralkyl, C1-6 alkyl, cycloalkyl, C2-6 alkenyl; Z = C alkyl or electron attractive group; n = 0-4) and a stabilizer II (X, Y = O, S; R1,2 = H, C1-4 alkyl, halo; R1 with R2 may joint to form an aromatic ring; Z = O, S). The invention recording material show superior resistance to moisture and plasticizer and has certain heat resistance good for possible heat-laminating.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(developer; thermosensitive recording material containing specified developer and stabilizer)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:648641 CAPLUS
DOCUMENT NUMBER: 131:279340
TITLE: Thermosensitive recording material
INVENTOR(S): Sumikawa, Naomi; Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11277909	A	19991012	JP 1998-80953	19980327
JP 3336609	B2	20021021		
PRIORITY APPLN. INFO.:			JP 1998-80953	19980327

OTHER SOURCE(S): MARPAT 131:279340
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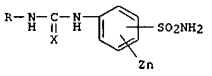
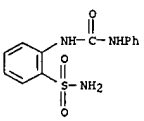


I

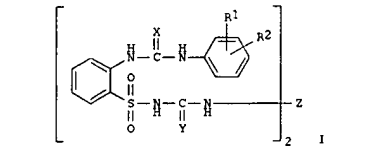
AB In the title recording material having a heat-sensitive recording layer containing a leuco dye precursor and a developer, the developer containing ≥1 compound I (X = O, S; R = (substituted)Ph, naphthyl, aralkyl, C1-6 alkyl, cycloalkyl, C2-6 alkenyl; Z = C1-6 alkyl or electron attractive group; n = 0-4) and a stabilizer II (X, Y = O, S; R1-4 = H, C1-4 alkyl, halo; R1 with R2, and R3 with R4 may joint to form an aromatic ring). The invention recording material shows superior resistance to moisture and plasticizer.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(developer; thermosensitive recording material containing specified developer and stabilizer)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:618717 CAPLUS
DOCUMENT NUMBER: 131:264792
TITLE: Thermal printing material containing (thio)urea compound as color developer
INVENTOR(S): Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru; Sumikawa, Naomi; Kinishi, Yoshikazu; Suga, Mamoru
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan; Yoshitomi Fine Chemical K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11263071	A	19990928	JP 1998-65863	19980316
JP 3334126	B2	20021015		
PRIORITY APPLN. INFO.:			JP 1998-65863	19980316

OTHER SOURCE(S): MARPAT 131:264792
GI



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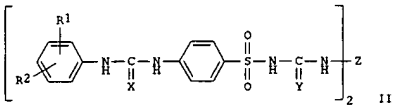


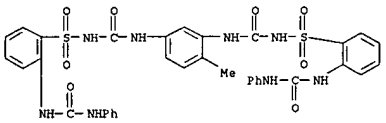
II

AB The material comprises a support coated with a heat-sensitive layer containing a colorless or pale colored basic dye, an organic color developer, and ≥1 compound I or II (R1, R2 = H, C1-4 alkyl, halo, R1 and R2 may link each other to form an aromatic ring; X, Y = O, S; Z = divalent organic group). The material provides a high d. image and low d. background and shows high plasticizer and moisture resistance.

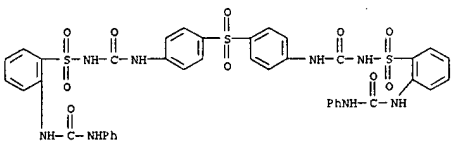
IT 244306-20-5 244306-22-7 244306-27-2
244306-30-7 244306-31-8
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal printing material containing (thio)urea compound as color developer)

RN 244306-20-5 CAPLUS

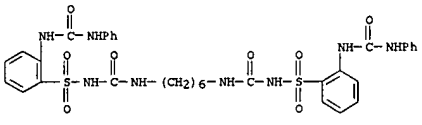
L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 244306-30-7 CAPLUS
CN Benzenesulfonamide, N,N'-[sulfonylbis(4,1-phenyleneiminocarbonyl)]bis[2-[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

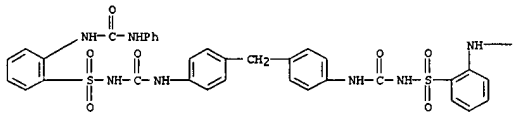


RN 244306-31-8 CAPLUS
CN Benzenesulfonamide, N,N'-[1,6-hexanediylbis(iminocarbonyl)]bis[2-[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CN Benzenesulfonamide, N,N'-[methylenebis(4,1-phenyleneiminocarbonyl)]bis[2-[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

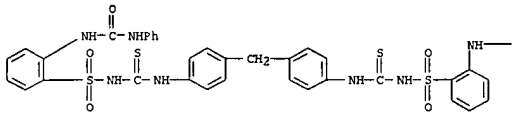
PAGE 1-A



PAGE 1-B

RN 244306-22-7 CAPLUS
CN Benzenesulfonamide, N,N'-[methylenebis(4,1-phenyleneiminocarbonothioyl)]bis[2-[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



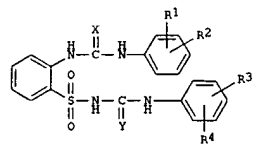
PAGE 1-B

RN 244306-27-2 CAPLUS
CN Benzenesulfonamide, N,N'-[(4-methyl-1,3-phenylene)bis(iminocarbonyl)]bis[2-[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

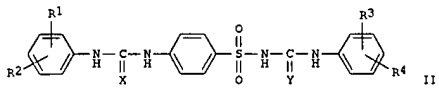
L4 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:617911 CAPLUS
DOCUMENT NUMBER: 131:264836
TITLE: Heat-sensitive recording material with improved plasticizer and oil resistance, containing 2- or 4-(phenylcarbamoylsulfamoyl)carbanilide
INVENTOR(S): Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru; Sumikawa, Naomi; Kinishii, Yoshikazu; Suga, Mamoru
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan; Yoshitomi Fine Chemical K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11263067	A	19990928	JP 1998-65862	19980316
JP 3334125	B2	20021015		
PRIORITY APPLN. INFO.:			JP 1998-65862	19980316

OTHER SOURCE(S): MARPAT 131:264836
GI



I

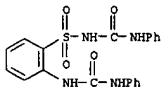


II

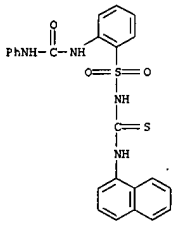
AB The material comprises a support having thereon a heat-sensitive color forming layer mainly containing a colorless or light-colored basic dye precursor, an organic color developer, and ≥1 2- or 4-(phenylcarbamoylsulfamoyl)carbanilide I or II (R1-4 = H, C1-4 alkyl, halo; R1 and R2 or R3 and R4 may form an aromatic ring; X, Y = O, S) as an organic developer or stabilizer. It shows improved resistance to plasticizers, oils, humid, and heat.

IT 244613-89-6 244614-01-5
RL: TEM (Technical or engineered material use); USES (Uses)
(developer or stabilizer; heat-sensitive recording material with improved plasticizer and oil resistance)

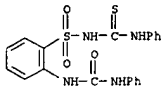
RN 244613-89-6 CAPLUS
CN Benzenesulfonamide, N-[(phenylamino)carbonyl]-2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



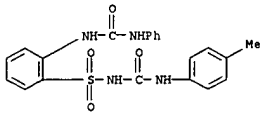
RN 244614-01-5 CAPLUS
CN Benzenesulfonamide, N-{(1-naphthalenylamino)thioxomethyl}-2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



IT 244613-91-0 244613-93-2
RL: TEM (Technical or engineered material use); USES (Uses)
(heat-sensitive recording material with improved plasticizer and oil resistance)
RN 244613-91-0 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]-N-[(phenylamino)thioxomethyl]- (CA INDEX NAME)



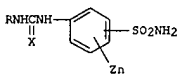
RN 244613-93-2 CAPLUS
CN Benzenesulfonamide, N-[[(4-methylphenyl)amino]carbonyl]-2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



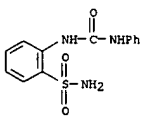
ACCESSION NUMBER: 1999:406901 CAPLUS
DOCUMENT NUMBER: 131:80808
TITLE: Thermal printing material with good heat and light resistance
INVENTOR(S): Sumikawa, Naomi; Nagai, Tomoaki; Hamada, Kaoru; Wakita, Yutaka
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11170706	A	19990629	JP 1997-341064	19971211
PRIORITY APPLN. INFO.:			JP 1997-341064	19971211
OTHER SOURCE(S):	MARPAT 131:80808			

GI



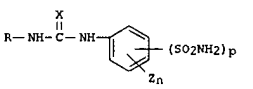
AB In the material comprising a support having an undercoat layer, a heat-sensitive layer containing a dye precursor and a color developer, and a protective layer, the color developer contains ≥1 of I [X = O, S; R = (substituted) Ph, naphthyl, aralkyl, C1-6 alkyl, cycloalkyl, C2-6 alkenyl; Z = C1-6 alkyl, electron withdrawing group; n = 0-4], the undercoat layer and/or the heat-sensitive layer contain a UV absorbent, the heat-sensitive layer and/or the protective layer contain a UV shut-off agent, and the protective layer contains a fluorescent dye. The material shows good heat and light resistance.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal printing material containing aminobenzene sulfonamide color develcper)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



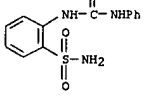
ACCESSION NUMBER: 1998:779460 CAPLUS
DOCUMENT NUMBER: 130:73875
TITLE: Thermal printing sheet with excellent heat-resistance and antiplasticization
INVENTOR(S): Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru; Sato, Ayako; Ohashi, Reiji; Nakano, Tomoyuki
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10315633	A	19981202	JP 1998-61129	19980312
PRIORITY APPLN. INFO.:			JP 1997-62692 A	19970317
OTHER SOURCE(S):	MARPAT 130:73875			

GI



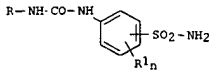
AB The title sheet comprises a thermal printing layer comprised of a leuco dye, a color developer I (X = O, S; R = Ph, naphthyl, aralkyl, C1-6-lower-alkyl; C3-6-cycloalkyl, C2-6-lower-alkenyl; Z = C1-6-lower alkyl, electron withdrawing group; n = 0-4; p = 1-5; n + p ≤5), and a polyurea compound
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(color developer in thermal printing layer of thermal printing sheet)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:650823 CAPLUS
DOCUMENT NUMBER: 129:323901
TITLE: Thermal printing material containing sulfonamide urea compound as color developer
INVENTOR(S): Nagai, Tomoaki; Hamada, Kaoru; Wakida, Yutaka; Sato, Reiko
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10264536	A	19981006	JP 1997-91331	19970327
JP 3306492	B2	20020724		
PRIORITY APPLN. INFO.:			JP 1997-91331	19970327
OTHER SOURCE(S):	MARPAT 129:323901			

GI

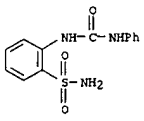


I

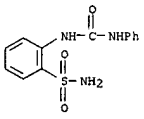
AB The material comprises a support with coatings of an intermediate layer containing hollow polymer particles having an opening obtained by cutting a part of the particle at a plane and a heat-sensitive layer containing a colorless or pale colored basic dye and, as a color developer, ≥1 compound I [X = O or S; R = (substituted) Ph, naphthyl, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl; R1 = C1-6 alkyl or electron-attracting group; n = 0-4; p = 1-5; n + p ≤ 5]. The material shows high thermal sensitivity, thermal resistance, antisticking properties prevents adhesion of stain to thermal head.

IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal printing material containing sulfonamide urea compound as color developer)

RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



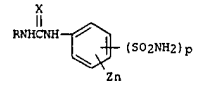
L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:476120 CAPLUS
DOCUMENT NUMBER: 127:115323
TITLE: Thermal recording medium
INVENTOR(S): Fukuchi, Tadakazu; Hamada, Kaoru; Nagai, Tomoaki; Kudoh, Nobuhiro; Sekine, Akio
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 778157	A2	19970611	EP 1996-308718	19961203
EP 778157	A3	19980225		
EP 778157	B1	20010404		
R: BE, DE, FR, GB, IT, SE				
JP 09216461	A	19970819	JP 1996-309825	19961121
JP 3063078	B2	20000712		
US 5811368	A	19980922	US 1996-759705	19961206
HK 1010356	A1	20010817	HK 1998-111281	19981016
PRIORITY APPLN. INFO.:			JP 1995-319922 A	19951208
OTHER SOURCE(S):	MARPAT 127:115323			

GI



I

AB A thermal recording medium comprises, on a substrate, a thermally sensitive color developing layer which comprises a colorless or pale colored basic leuco dye and an organic color developer, wherein the thermal color developing layer includes (a) 0.01-0.9 parts by weight, based on 1 part by weight of the color developer, of one or more aminobenzenesulfonamide derivs. of the formula I wherein X is oxygen or sulfur, R is a group selected from Ph, naphthyl, aralkyl, C1-C6 alkyl, C3-C6 cycloalkyl, and C2-C6 alkenyl, which group is unsubstituted or substituted, Z is C1-C6 alkyl or an electron-attracting group, n is 0 or an integer from 1 to 4 and p is an integer from 1 to 5, providing n+p≤5 and (b) 0.01-2 parts by weight, based on 1 part by weight of the color developer, of at least one methylolated fatty acid amide of the formula R1CONHCH2OH wherein R1 is C11-C21 alkyl.

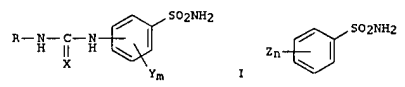
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal recording materials containing)

RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:453717 CAPLUS
DOCUMENT NUMBER: 127:88112
TITLE: Thermal-sensitive recording sheet
INVENTOR(S): Hamada, Kaoru; Midorikawa, Yoshimi; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Ueda, Hiroshi
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Can. Pat. Appl., 45 pp.
CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2185846	A1	19970320	CA 1996-2185846	19960918
JP 09142034	A	19970603	JP 1996-232827	19960903
JP 3029014	B2	20000404		
EP 769391	A1	19970423	EP 1996-306806	19960919
EP 769391	B1	19981125		
R: BE, DE, FR, GB, IT, SE				
US 5753586	A	19980519	US 1996-716547	19960919
PRIORITY APPLN. INFO.:			JP 1995-240157 A	19950919
OTHER SOURCE(S):	MARPAT 127:88112			

GI



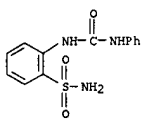
I II

AB A thermal-sensitive recording sheet comprises a substrate having thereon a thermal-sensitive color-developing layer mainly composed of a leuco dye and an organic color developer, characterized in that the thermal-sensitive color-developing layer includes an aminobenzenesulfonamide derivative represented by the formula I, where X indicates an oxygen or sulfur atom, Y indicates a lower alkyl group of 1-4 carbon atoms or an electron-attracting group, m indicates an integer of 0-4, and R indicates a nonsubstituted or substituted Ph group, aralkyl group, lower alkyl group of 1-6 carbon atoms, cycloalkyl group of 3-6 carbon atoms, lower alkenyl group of 2-6 carbon atoms, or naphthyl group, as a color developer and a sulfonamide compound represented by the formula II, where Z indicates a lower alkyl group of 1-6 carbon atoms or an electron-attracting group and n indicates an integer of 0-2, as a sensitizer by the amount of 0.01-2 parts based on 1 part of the color developer.

IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(color developer for thermal recording materials)

RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:447284 CAPLUS
DOCUMENT NUMBER: 127:73053
TITLE: Thermal printing material for images with good solvent resistance
INVENTOR(S): Nagai, Tomoaki; Sekine, Akio; Hamada, Kaoru; Fukuchi, Chuichi
PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09142029	A	19970603	JP 1995-303053	19951121
JP 3063075	B2	20000712		
PRIORITY APPLN. INFO.:			JP 1995-303053	19951121
OTHER SOURCE(S):	MARPAT 127:73053			

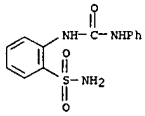
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The material comprises a support coated with a heat-sensitive layer containing a colorless dye precursor, ≥1 aminobenzenesulfonamide derivative I [X = O, S; R = (substituted) Ph, naphthyl, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl; Z = C1-6 alkyl, electron withdrawing group; n = 0-4; p = 1-5; n + p ≤5], ≥1 polyhydroxy phenol II (R1 = C18-35 alkyl, C6H4R2, CH2C6H4R2, Q1-3; R2 = C18-35 alkyl; q = 2-3; G = CH2, CO2, CO, O, CONH, CONR3; R3 = C5-30 alkyl, SO2, SO3 SO2NH), and a higher fatty acid metal salt. The material gives high-d. images with good solvent resistance and storage stability.

IT 175014-56-9
RL: DEV (Device component use); USES (Uses)
(color-developer; thermal printing material for images with good solvent resistance)

RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

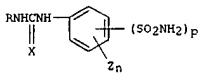


L4 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:435981 CAPLUS
DOCUMENT NUMBER: 127:58133
TITLE: Thermal recording medium containing fatty acid amide
INVENTOR(S): Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 776769	A2	19970604	EP 1996-308592	19961128
EP 776769	A3	19980128		
EP 776769	B1	20000202		
R: BE, DE, FR, GB, IT, SE				
JP 09207456	A	19970812	JP 1996-308559	19961120
JP 3063077	B2	20000712		
US 5811369	A	19980922	US 1996-757766	19961127
HK 1000907	A1	20000728	HK 1997-102477	19971217
PRIORITY APPLN. INFO.:			JP 1995-313910 A	19951201
OTHER SOURCE(S):	MARPAT 127:58133			

GI



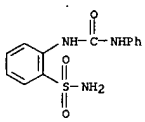
I

AB A thermally sensitive recording medium comprises on substrate, a recording layer comprising (a) a colorless or pale colored dye precursor, (b) a color developer which can react with the dye precursor to develop a color and which includes at least one compound of formula I wherein X is oxygen or sulfur and R is a group selected from Ph naphthyl, aralkyl, C1-C6 alkyl, C3-C6 cycloalkyl and C2-C6 alkenyl, which group is unsubstituted or substituted, Z is C1-C6 alkyl or an electron-attracting group, n is 0 or an integer from 1 to 4, and p is an integer from 1 to 5 provided that n + p ≤ 5, and (c) at least one methylolated fatty acid amide of formula R1CONHCH2OH wherein R1 is C11-C21 alkyl.

IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal recording medium containing fatty acid amide and)

RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

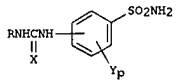
L4 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:396584 CAPLUS
DOCUMENT NUMBER: 127:26207
TITLE: Thermal recording media containing aminobenzenesulfonamide and aromatic sulfonyl compound
INVENTOR(S): Hamada, Kaoru; Midorikawa, Yoshimi; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Kaneko, Toshio
PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09099645	A	19970415	JP 1995-261388	19951009
JP 2910031	B2	19990623		
PRIORITY APPLN. INFO.:			JP 1995-261388	19951009
OTHER SOURCE(S):	MARPAT 127:26207			

GI



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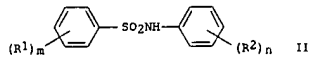

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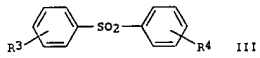
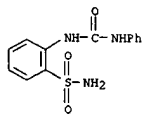


III

AB The media have a thermal coloring layer containing a colorless or pale-colored dye, an organic color developer containing an aminobenzenesulfomanide derivative I (X = O, S; Y = C1-6 alkyl, electron-accepting group; p = 0-4; R = Ph, aralkyl, C1-6 alkyl; C3-6 cycloalkyl; C2-6 alkenyl, naphthyl) and 0.01-2 parts (to the developer) an aromatic sulfonyl compound sensitizer II (R1, R2 = halo, C1-6 alkyl; m, n = 0-2) or III (R3, R4 = H, C1-6 alkoxy, aryloxy) on a support. The media give good images with sensitivity.
IT 175014-56-9
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

L4 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
(thermal recording media contg. aminobenzenesulfonamide color developer and arom. sulfonyl compd. sensitizer)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:383583 CAPLUS
DOCUMENT NUMBER: 127:26194
TITLE: Thermal recording material with improved thermal sensitivity
INVENTOR(S): Hamada, Kaoru; Midorikawa, Yoshimi; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Ueda, Hiroshi
PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09099646	A	19970415	JP 1995-261389	19951009
JP 2967712	B2	19991025		
PRIORITY APPLN. INFO.:			JP 1995-261389	19951009
OTHER SOURCE(S):	MARPAT 127:26194			

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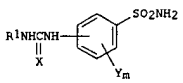
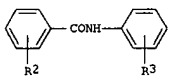


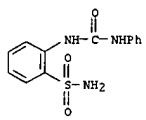
I



II

AB The title recording material comprises a support coated with a heat-sensitive layer containing a basic colorless dye, an aminobenzenesulfonamide derivative I (X = O, S; Y = C1-6 alkyl, electron-attracting group; m = 0-4; R1 = (substituted) Ph, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl, naphthyl) as a color developer, and an aromatic amide compound II (R2 = H, Me; R3 = H, electron-attracting group) as a sensitizer at 0.01-2 parts per 1 part the color developer.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(color developer; thermal recording material containing aminobenzenesulfoamide color developer and aromatic amide sensitizer)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:342243 CAPLUS
DOCUMENT NUMBER: 127:26150
TITLE: Thermal printing material containing benzenesulfonamide derivative as stabilizer
INVENTOR(S): Hamada, Kaoru; Fukuchi, Chuichi; Midorikawa, Yoshimi; Takebayashi, Kuniaki; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Kudo, Nobuhiro
PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09076633	A	19970325	JP 1995-240158	19950919
JP 2967706	B2	19991025		

PRIORITY APPLN. INFO.: JP 1995-240158 19950919
OTHER SOURCE(S): MARPAT 127:26150
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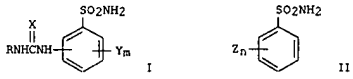
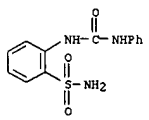


AB In the material comprising a support coated with a heat-sensitive layer containing a basic dye and an organic color-developer, the layer contains, as stabilizers, 0.01-0.9 parts (based on 1 part color-developer) aminobenzenesulfonamide derivative I [X = O, S; Y = C1-6 alkyl, electron-withdrawing group; m = 0-4; R = (substituted) Ph, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl, naphthyl] and 0.01-2 parts (based on 1 part color-developer) sulfonamide compound II (Z = C1-6 alkyl, electron-with drawing group; n = 0-2). The material gives images with good storage stability.
IT 175014-56-9
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(thermal printing material containing (amino)benzenesulfonamide derivs. as storage stabilizers)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

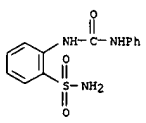
L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:428399 CAPLUS
DOCUMENT NUMBER: 125:72005
TITLE: Reversible multi-color thermal recording medium
INVENTOR(S): Minami, Toshiaki; Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 64 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 709225	A1	19960501	EP 1995-307663	19951027
EP 709225	B1	19980805		
R: BE, DE, FR, GB, IT, SE				
JP 08118806	A	19960514	JP 1994-262998	19941027
JP 2910027	B2	19990623		
JP 08156407	A	19960618	JP 1994-294142	19941129
JP 2910028	B2	19990623		
CA 2161376	A1	19960428	CA 1995-2161376	19951025
CA 2161376	C	20050111		
US 5710094	A	19980120	US 1995-549240	19951027

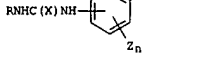
PRIORITY APPLN. INFO.: JP 1994-262998 A 19941027
JP 1994-294142 A 19941129
OTHER SOURCE(S): MARPAT 125:72005
AB A reversible multi-color thermal recording medium comprises, laminated on a substrate: (i) an irreversible thermal composition comprising a colorless or pale basic achromatic dye and an organic irreversible heat-resistant color developer; and (ii) a reversible multi-color thermal composition comprising a colorless or pale basic achromatic dye and an organic reversible heat-resistant color developer.
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)
(irreversible heat-resistant color developer for reversible multi-color thermal recording medium)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:205047 CAPLUS
DOCUMENT NUMBER: 124:246515
TITLE: Aminobenzenesulfonamide derivative as color developer for thermosensitive recording material
INVENTOR(S): Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio; Minami, Toshiaki
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

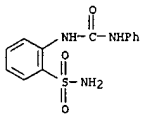
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 693386	A1	19960124	EP 1995-305078	19950720
EP 693386	B1	19970205		
R: BE, DE, FR, GB, IT, SE				
JP 08025810	A	19960130	JP 1994-168516	19940721
JP 2819542	B2	19981030		
JP 08053407	A	19960227	JP 1994-187649	19940810
JP 08059603	A	19960305	JP 1994-195568	19940819
JP 08132739	A	19960528	JP 1994-270959	19941104
JP 2819544	B2	19981030		
JP 08290671	A	19961105	JP 1995-97021	19950421
JP 3063069	B2	20000712		
JP 08310134	A	19961126	JP 1995-122393	19950522
JP 3063071	B2	20000712		
CA 2154323	A1	19960122	CA 1995-2154323	19950720
CA 2154323	C	20010327		
US 5665675	A	19970909	US 1995-504784	19950720

PRIORITY APPLN. INFO.: JP 1994-168516 A 19940721
JP 1994-187649 A 19940816
JP 1994-195568 A 19940819
JP 1994-270959 A 19941104
JP 1995-97021 A 19950421
JP 1995-122393 A 19950522
OTHER SOURCE(S): MARPAT 124:246515
GI



AB A thermosensitive recording material comprises a substrate having thereon a recording layer comprising, as main ingredients, a colorless or pale colored dye precursor and a color developer with which the dye precursor reacts to develop a color, wherein the color developer comprises at least one compound of the formula I [X is an O or sulfur atom, R is a (un)substituted Ph group, naphthyl group, aralkyl group, C1-C6 alkyl group, cycloalkyl group of C2-C6 alkenyl group, Z is a C1-C6 alkyl group or an electron-attracting group, and n is 0 or an integer of 1-4].
IT 175014-56-9
RL: TEM (Technical or engineered material use); USES (Uses)

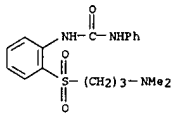
L4 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
(color developer for thermosensitive materials)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:448065 CAPLUS
DOCUMENT NUMBER: 77:48065
ORIGINAL REFERENCE NO.: 77:7959a,7962a
TITLE: Substituted ureas and their derivatives
INVENTOR(S): Krapcho, John
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.
SOURCE: S. African, 32 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

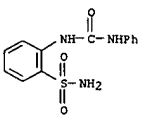
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7101379	A	19711229	ZA 1971-1379	19710303
GB 1358584	A	19740703	GB 1971-19513	19710608
BE 768555	A1	19711215	BE 1971-104654	19710615
CH 546231	A	19740228	CH 1971-8744	19710615
CH 555323	A	19741031	CH 1971-8743	19710615

PRIORITY APPLN. INFO.: US 1970-46520 A 19700615
GI For diagram(s), see printed CA Issue.
AB About 10 phenylureas (I, X = O, S; R = H; R1 = H, alkyl, cyclohexyl, phenyl) were prepared by reacting the corresponding o-substituted anilines Me2N(CH2)3XC6H4NH2 (II) with the isocyanates OCNR1 in C6H6, AcOH, or MeCN at room temperature or at reflux. Two I [X = S; R = R1 = Me; (NRR1) = 1-pyrrolidinyl] were prepared by reacting II (X = S) with COCl2 in CHCl3-PhMe at room temperature and treating the product with either Me2NH or with pyrrolidine. I (X = O; R = R1 = Me) was prepared by refluxing II (X = O) in PhMe with Me2NCOCl. I (X = S; R = H; R1 = Ph) was oxidized with m-chloroperbenzoic acid to give I (X = SO, SO2; R = H; R1 = Ph).
IT 36587-75-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 36587-75-4 CAPLUS
CN Urea, N-[2-[(3-(dimethylamino)propyl]sulfonyl]phenyl]-N'-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1951:6245 CAPLUS
DOCUMENT NUMBER: 45:6245
ORIGINAL REFERENCE NO.: 45:1144b-f
TITLE: Derivatives of benz-1,2,4-thiadiazine 1,1-dioxide
AUTHOR(S): Parke, D. V.; Williams, R. T.
CORPORATE SOURCE: St. Mary's Hosp. Med. School, London
SOURCE: Journal of the Chemical Society (1950) 1760-3
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 45:6245
GI For diagram(s), see printed CA Issue.
AB o-H2NC6H4SO2NH2 (I) (10 g.) and 7 g. CO(NH2)2, heated 30 min. at 180°, give 94% C6H4.SO2.NH.CO.NH (II), m. 305° (Schrader, C.A. 12, 1772, gave 287.8°), has a very sweet saccharinlike taste; Me2SO4 and alkali give the 2-Me derivative, m. 238-40°. II (10 g.) in 10 cc. concentrated H2SO4, treated at 0-5° with 3.5 cc. concentrated HNO3 and 4 cc. concentrated H2SO4, gives 9 g. of the 7-NO2 derivative, pale buff, m. 283°, intensely bitter; Na salt, deep orange. 2,4-H2N(O2N)C6H3SONH2 (III) (0.8 g.) and 0.7 g. CO(NH2)2 at 200° give the 6-NO2 derivative of II, yellow, m. 270°, slightly bitter, forms an orange Na salt. 5,2-Br(NH2)C6H3SO2NH2 (0.5 g.) gives 0.45 g. of the 7-Br derivative of II, m. 335°, almost tasteless. 3,2-HO(H2N)C6H3SO2Na (229 mg.) and 150 mg. CO(NH2)2, heated 1 hr. at 180°, give 61% of the 5-HO derivative of II, m. 275°, deep blue FeCl3 reaction (acetate, m. 262°). I (2 g.) and 2 g. PhNCO, heated 1 hr. at 100°, give 2 g. 1-phenyl-3-(o-sulfamylphenyl)urea (IV), m. 180°; heated 1 hr. at 220°, IV gives PhNH2 and II. This indicates that HCNO [formed by the decomposition of CO(NH2)2] combines with the I to give a substituted urea which then cyclizes with loss of NH3 to form the II. III (0.12 g.) and 0.2 cc. HCO2H, heated 1 hr. on the water bath, give a quant. yield of 6-nitro-1,4,2,2H-benzothiadiazine 1,1-dioxide, yellow, m. 358° (decomposition); 7-Br analog, m. 285°; 5-HO analog, light brown, m. 263°, blue color with FeCl3. I (5 g.), 10 cc. Ac2O, and 5 cc. C5H5N, kept overnight, give 4.8 g. of the o-diacetylamino compound, m. 190°; heated 2 hrs. at 200°, it gives the 3-Me homolog of II, m. 269°. I with equal vols. of AcOH and Ac2O gives a mixture of Ac derivs.; the mono-Ac derivative is cyclized on crystallization from hot H2O. The absorption spectra of these compds. are discussed.
IT 175014-56-9P, Carbanilide, 2-sulfamoyl-
RL: PREP (Preparation)
(preparation of)
RN 175014-56-9 CAPLUS
CN Benzenesulfonamide, 2-[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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NEWS 5	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 7	AUG 27	USPATOLD now available on STN
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NEWS 11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 12	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 13	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 15	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 16	OCT 19	BEILSTEIN updated with new compounds
NEWS 17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS 18	NOV 19	WPIX enhanced with XML display format
NEWS 19	NOV 30	ICSD reloaded with enhancements
NEWS 20	DEC 04	LINPADOCDB now available on STN
NEWS 21	DEC 14	BEILSTEIN pricing structure to change
NEWS 22	DEC 17	USPATOLD added to additional database clusters
NEWS 23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS 24	DEC 17	DGENE now includes more than 10 million sequences
NEWS 25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS 26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 27	DEC 17	CA/CAplus enhanced with new custom IPC display formats
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NEWS 29	JAN 02	STN pricing information for 2008 now available
NEWS 30	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances

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L1              STR
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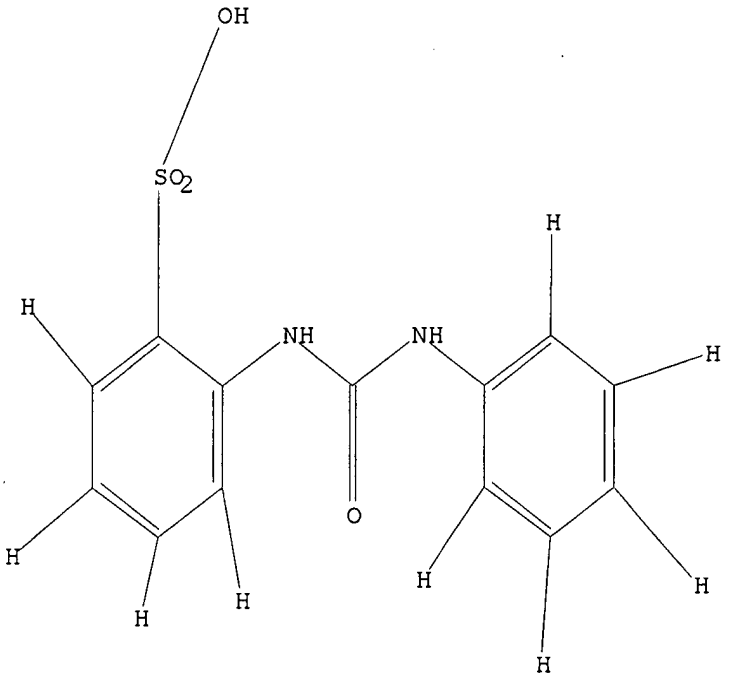

G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 08:20:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       26 TO ITERATE

100.0% PROCESSED       26 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          215 TO      825
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 08:20:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      449 TO ITERATE

100.0% PROCESSED      449 ITERATIONS                               2 ANSWERS
SEARCH TIME: 00.00.01

L3            2 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   178.36     178.57

FILE 'CAPLUS' ENTERED AT 08:20:36 ON 22 JAN 2008
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FILE COVERS 1907 - 22 Jan 2008 VOL 148 ISS 4
FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

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http://www.cas.org/infopolicy.html

=> s l3
L4 1 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:979991 CAPLUS
DOCUMENT NUMBER: 145:366486
TITLE: Positive photosensitive composition and image recording material using the same
INVENTOR(S): Watanabe, Kotaro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 40pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006210921	A1	20060921	US 2006-375254	20060315
JP 2006258980	A	20060928	JP 2005-73819	20050315

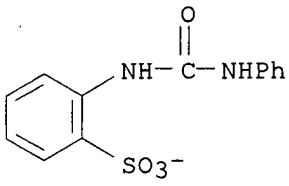
PRIORITY APPLN. INFO.: JP 2005-73819 A 20050315
OTHER SOURCE(S): MARPAT 145:366486

AB The invention discloses a pos. photosensitive composition comprising (A) a photo acid generator having bivalent functional group selected from NHC(O), NHS(O)2, NHC(S), and NHC:N(Me), (B) a polymer having a phenolic hydroxyl group, and (C) an IR-light absorber. The invention also provides a pos. planog. printing plate precursor using this photosensitive composition for the recording layer.

IT 910312-72-0
RL: MOA (Modifier or additive use); USES (Uses)
(pos. photosensitive composition for planog. printing plate precursor)
RN 910312-72-0 CAPLUS
CN Sulfonium, tris(4-chlorophenyl)-, salt with 2-[[(phenylamino)carbonyl]amino]benzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

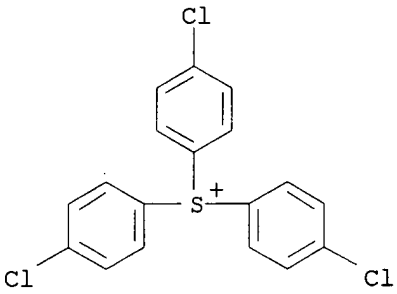
CM 1

CRN 910312-71-9
CMF C13 H11 N2 O4 S



CM 2

CRN 125853-07-8
CMF C18 H12 Cl3 S



=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.41	184.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

FILE 'REGISTRY' ENTERED AT 08:21:43 ON 22 JAN 2008

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3
DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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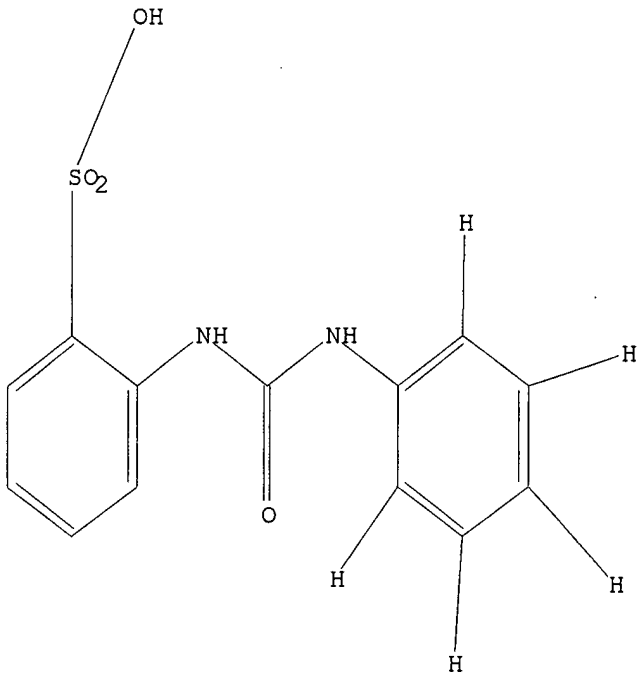
L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 08:21:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 215 TO 825
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 08:21:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 449 TO ITERATE

100.0% PROCESSED 449 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L7 6 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 178.36 363.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -0.80

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FILE COVERS 1907 - 22 Jan 2008 VOL 148 ISS 4
FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l7
L8 5 L7

=> d ibib abs hitstr tot

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:979991 CAPLUS
DOCUMENT NUMBER: 145:366486
TITLE: Positive photosensitive composition and image recording material using the same
INVENTOR(S): Watanabe, Kotaro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 40pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006210921	A1	20060921	US 2006-375254	20060315
JP 2006258980	A	20060928	JP 2005-73819	20050315
PRIORITY APPLN. INFO.:			JP 2005-73819 A	20050315
OTHER SOURCE(S):	MARPAT 145:366486			

AB The invention discloses a pos. photosensitive composition comprising (A) a photo acid generator having bivalent functional group selected from NHC(O), NHS(O)2, NHC(S), and NHC:N(Me), (B) a polymer having a phenolic

hydroxyl group, and (C) an IR-light absorber. The invention also provides a pos. planog. printing plate precursor using this photosensitive composition for the recording layer.

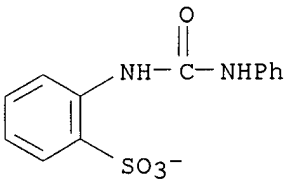
IT 910312-72-0
RL: MOA (Modifier or additive use); USES (Uses)
(pos. photosensitive composition for planog. printing plate precursor)

RN 910312-72-0 CAPLUS

CN Sulfonium, tris(4-chlorophenyl)-, salt with 2-[[(phenylamino)carbonyl]amino]benzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

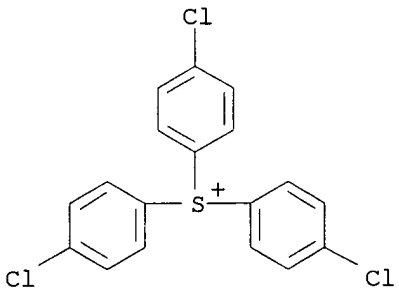
CM 1

CRN 910312-71-9
CMF C13 H11 N2 O4 S



CM 2

CRN 125853-07-8
CMF C18 H12 Cl3 S



L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1992:526051 CAPLUS
DOCUMENT NUMBER: 117:126051
TITLE: Combined action of a fluorescent brightening agent and polyoxyethylene alkylalcohol ether on yeast
AUTHOR(S): Sugihara, Toshiharu
CORPORATE SOURCE: Fac. Educ., Gifu Univ., Gifu, 501-11, Japan
SOURCE: Nippon Kasei Gakkaishi (1992), 43(3), 207-14
CODEN: NKGAEB; ISSN: 0913-5227
DOCUMENT TYPE: Journal
LANGUAGE: English

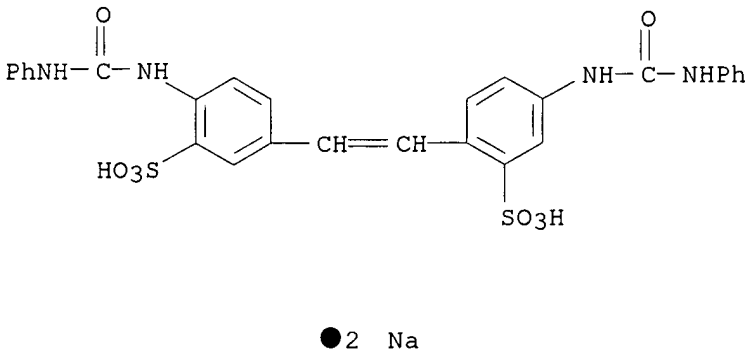
AB The influence of the fluorescent brightener, di-Na 4,4'-bisphenylureidostilbene-2,2'-disulfonate (I), on Saccharomyces cerevisiae yeast was investigated in the presence of a series of polyoxyethylene alkyl ethers (POEs). The nonionic surfactants changed the action of I on the yeast depending on their nature. Hydrophobic surfactants with I decreased more the growth of the yeast and the rate of surviving cells after incubation than with I alone, which was accompanied by stronger

inhibition of sterol biosynthesis and of enzymes related to the electron-transport process. Extracellular enzymes were greatly enhanced in the presence of hydrophobic surfactants and I. On the other hand, the surfactants with low hydrophobicity exhibited the opposite action in reducing the influence of I on the biol. processes in yeast. POEs had little effect on yeast. The effects of POE and I on the biochem. processes of yeast correlated well with the hydrophilic-lipophilic balance (HLB) of the surfactants. This phenomenon is interpreted in terms of the change in interaction of I in POE micelles with yeast, and is supported by data on adsorption isotherms of FBA to yeast in the presence of POE.

IT 124412-61-9
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(toxicity of, to yeast, polyoxyethylene surfactants effect on, sterol formation and enzymes in relation to)

RN 124412-61-9 CAPLUS

CN Benzenesulfonic acid, 2-[[(phenylamino)carbonyl]amino]-5-[2-[4-[[(phenylamino)carbonyl]amino]-2-sulfophenyl]ethenyl]-, disodium salt (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:18775 CAPLUS
DOCUMENT NUMBER: 112:18775
TITLE: Influence of fluorescence brightening agents on yeast Saccharomyces cerevisiae
AUTHOR(S): Sugihara, Toshiharu
CORPORATE SOURCE: Fac. Educ., Gifu Univ., Gifu, 501-11, Japan
SOURCE: Nippon Kasei Gakkaishi (1989), 40(8), 691-6
CODEN: NKGAEB; ISSN: 0913-5227
DOCUMENT TYPE: Journal
LANGUAGE: English

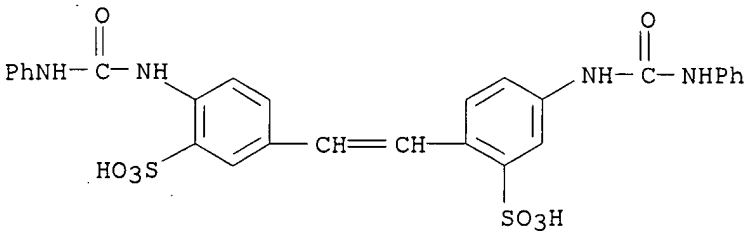
AB The effects of 4 types of fluorescence brightening agents (FBAs) on S. cerevisiae were investigated. Derivs. of stilbene disulfonic acid disodium salt (FBA-1) strongly inhibited yeast growth, while derivs. of coumarin (FBA-2), pyrazoline (FBA-3), and naphthylimide (FBA-4) slightly affected the yeast. Inhibition by each FBA was correlated with the inhibition of sterol biosynthesis and with the enzymes related to the electron transport system in yeast. FBA-1 changed the sterol composition by strongly accumulating the sterols found in the early stages of biosynthesis and by strongly inhibiting the enzymes of electron-transport system. FBA-2, -3, and -4 did not have significant effects on either sterol biosynthesis or enzyme activity.

IT 124412-61-9
RL: BIOL (Biological study)
(Saccharomyces cerevisiae inhibition by, mechanism of)

RN 124412-61-9 CAPLUS

CN Benzenesulfonic acid, 2-[[(phenylamino)carbonyl]amino]-5-[2-[4-[[(phenylamino)carbonyl]amino]-2-sulfophenyl]ethenyl]-, disodium salt

(9CI) (CA INDEX NAME)



●2 Na

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1967:482960 CAPLUS
DOCUMENT NUMBER: 67:82960
ORIGINAL REFERENCE NO.: 67:15675a,15678a
TITLE: Urea stilbene brighteners
INVENTOR(S): Shultis, Webster A., Jr.; Shanholtzer, Orville G.
PATENT ASSIGNEE(S): General Aniline and Film Corp.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3332981		19640725	US 1964-396390	19640914

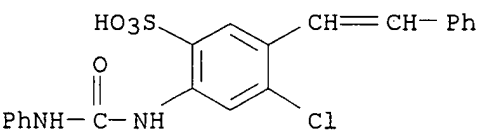
GI For diagram(s), see printed CA Issue.

AB The title compds. the general formula I, useful as fluorescent brightening agents for nylon, were prepared by condensing aminostilbenes with a phenyl isocyanate. Thus, a solution of 22.95 g. 4-H2NC6H4CH:C6H4Cl-2 in 200 cc. acetone was treated with 13.1 g. PhNCO. After 1 hr. at room temperature the mixture was filtered, washed, and dried to give 86% tannish I (R1 = Cl, R = R2 = R3 = R4 = H). Similarly, other I were prepared (R-R4 given): Cl, H, Cl, H, H; H, H, Cl, H, SO3H; H, H, H, H, H; Cl, H, H, Cl, H; H, H, CN, H, H.

IT 17347-44-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 17347-44-3 CAPLUS

CN 3-Stilbenesulfonic acid, 6-chloro-4-(3-phenylureido)- (8CI) (CA INDEX NAME)



L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1959:14091 CAPLUS
DOCUMENT NUMBER: 53:14091
ORIGINAL REFERENCE NO.: 53:2629i,2630a-c

TITLE: Adsorption of water-soluble organic compounds on cotton. II

AUTHOR(S): Lamparsky, D.; Rack, E.
CORPORATE SOURCE: Battelle Mem. Inst., Frankfurt, Germany

SOURCE: Seifen, Oele, Fette, Wachse (1958), 84, 640-4
CODEN: SOFWAF; ISSN: 0173-5500
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C.A. 53, 1704g. The adsorption of Congo red (I), an optical brightener [PhNHCONH(SO3Na)C6H3CH:]2 (II), 4,4'-diaminodiphenylmethane (III), 2-hydroxybiphenyl (IV), and 2,2'-dihydroxybiphenyl (V) on cotton from aqueous solution was studied, and the influence of Na2SO4 (VI), Na5P3O10 (VII), and surface-active agents on the adsorption was investigated. The exptl. procedures were given in the previous article. At pH 5.5, I is adsorbed more strongly than at pH 9.5. In the presence of VI, the adsorption of I is greatly increased at both pH values. VII and surface-active agents decrease the adsorption of I. The adsorption of II is the same at pH 5.5 and 9.5. Presence of VI again increases the adsorption; VII has no influence. III is adsorbed at pH 5.5 to an equal degree with or without addition of VI. At pH 9.5, there is only little adsorption which is markedly increased by VI. In the presence of surface-active agents, there is no adsorption. The adsorption of IV on cotton is independent of time, and follows Henry's distribution law. Formation of a solid solution of IV on cotton is postulated. Addition of VI or VII has no influence. Addition of surface-active agents results in a time-dependent equilibrium and a greatly increased adsorption. Na dodecylbenzenesulfonate is approx. 4 times as effective as Na dodecyl sulfate. V behaves similarly to IV, but the over-all adsorption is lower, and there is no adsorption in the presence of VII and at pH 9.5.

IT 116028-99-0, 3,3'-Stilbenedisulfonic acid, 4,4'-bis(3-phenylureido)-
(adsorption on cotton and effect of Na2SO4, Na5P3O10 and surfactants thereon)

RN 116028-99-0 CAPLUS

CN 3,3'-Stilbenedisulfonic acid, 4,4'-bis(3-phenylureido)- (6CI) (CA INDEX NAME)